

Marshmallows Away

Activity Sheet

Name _____ Period _____

Your catapult is a simple machine, a lever. In throwing a marshmallow your catapult is doing work. You must identify the class of lever your catapult falls in. In this activity you will also be asked to calculate the work being done by your catapult and the mechanical advantage of your machine. To accomplish these tasks you will need to listen to the instructions given by your teacher.

My Catapult is a _____ Class Lever

$$MA = \text{Effort arm length} / \text{Resistance arm length}$$

Length of effort arm _____ cm.

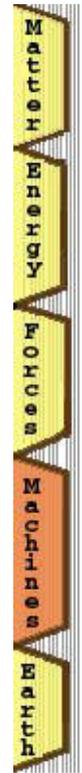
Length of resistance arm _____ cm.

Mechanical Advantage _____

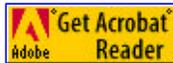
$$\text{Work} = \text{Force} \times \text{Distance}$$

Force _____ lbs. Distance _____ ft.

Force _____ N. Distance _____ m. Work _____ J



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